BRUHAT BANGALORE MHANAGARA PALIKE

Detailed Estimate for :- Development of Civil Works at BEL Layout Parks, in Ward No.9, Vidyaranyapura,

Estimated cost Rs.30.00 Lakhs

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
1	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms) P. 258 I. No. 37.51								
	BEL layout park pathway	1	54.00	2.10	0.15	17.01			
		1	54.50	2.10	0.15	17.17			
		1	22.80	2.10	0.15	7.18			
		1	23.00	2.10	0.15	7.25			
						48.60	55.08	sqm	2677.00
	Basic Rate	51.00							
	Area Weightage @ 8%	4.08							
	Total	55.08							
2	KSRB 2-2.1 : Earthwork in surface excavation in oridinary soil for leveling and lowering he ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavted surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) /2.3.1 (P-5, I-2.1 PWDSR 15-16)								
	BEL layout park	1	54.00	2.10	0.15	17.01			
		1	54.50	2.10	0.15	17.17			
		1	22.80	2.10	0.15	7.18			
		1	23.00	2.10	0.15	7.25			
	platform	1	4.00	4.50	0.20	3.60			
	CP area	1	12.50	12.00	0.20	30.00			
						82.20	159.84	Cum	13140.00
	Basic Rate	148.00							
	Area Weightage @ 8%	11.84							
	Total	159.84							
3	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the escavated soil clean from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (KSB 2.1) (b) 2.3.5, P-5, 1-2.3)								
	alround chainlink fencing	1	25.00	0.40	0.30	3.00			

		1	60.00	0.40	0.30	7.20			
	Front	1	24.00	0.40	0.30	2.88			
		1	30.00	0.40	0.30	3.60			
	platform	10	2.10	1.20	0.30	7.56			
	gate	2	0.60	0.60	0.60	0.43			
	kerb stone	2	54.00	0.30	0.20	6.48			
		2	22.80	0.30	0.20	2.74			
		2	54.50	0.30	0.20	6.54			
		2	23.00	0.30	0.20	2.76			
						43.19	192.24	Cum	8302.00
	Basic rate	178.00							
	Area Weightage @ 8%	14.24							
	Total	192.24							
4	Lead for Disposal of Debris/earth shall be payable at garage rates by Mechanical means including loading and unloading from 0Kms to 15Kms (P.No.124.I.No.Conveying)								
	Qty item no. 1 & 2					91.79			
						85.00	108.65	Cum	9235.00
	Loading and unloading I.No.17.1	62.20							
	for Haulage(surface road Rs. 2.0 T/Km)								
	(density of debris 1.28 t/cum)								
	for 15kms =15x2x1.28	38.40							
		100.60							
	Area Weightage @ 8%	8.05							
	Total	108.65							
5	Providing and laying in positionp lain cement concrete of Mix CC 1:4;8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.3)								
	pathway	1	54.00	2.10	0.15	17.01			
		1	54.50	2.10	0.15	17.17			
		1	22.80	2.10	0.15	7.18			
		1	23.00	2.10	0.15	7.25			
	platform	10	2.10	1.20	0.15	3.78			
	platform	1	4.00	3.50	0.15	2.10			
	fixing of rectangular	2	0.60	0.60	0.15	0.11			
	alround chainlink	1	60.00	0.40	0.15	3.60			
		1	30.00	0.40	0.15	1.80			
		1	32.00	0.40	0.15	1.92			
		1	26.00	0.40	0.15	1.56			

					Total	63.47	5070.60	cum	321844.00
	Basic Rate	4695.00							
	Area Weightage @8%	375.60							
	Total	5070.60							
6	Providing and fixing precast solid concrete kerb stones made out of No.272.21 CC. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing includign cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete P. No. 25 I. No. 5.30								
	kerb stone	2	54.00			108.00			
		2	50.00			100.00			
		2	22.80			45.60			
		2	26.00			52.00			
						305.60			
	1kerb=0.45 mt					679	314.82	Nos	213797.76
	Basic Rate	297.00							
	Area weightage @ 6%	17.82							
	Total	314.82							
7	Providing and laying in positionplain cement concrete of Mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.549 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.6)								
	pathway	1	54.00	2.10	0.10	11.34			
		1	54.50	2.10	0.10	11.45			
		1	22.80	2.10	0.10	4.79			
		1	23.00	2.10	0.10	4.83			
	platform	10	2.10	1.20	0.10	2.52			
	platform	1	4.00	3.50	0.10	1.40			
	fixing of rectangular poles	2	0.45	0.45	0.45	0.18			
	alround chainlink fencing	1	60.00	0.30	0.30	5.40			
		1	30.00	0.30	0.30	2.70			
		1	32.00	0.30	0.30	2.88			
		1	26.00	0.30	0.30	2.34			
					Total	49.83	5490.72	cmtr Cum	273577.00
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	5490.72							

8	Providing and fixing cement base precast, pre-polished cement concrete designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortat 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour curing complete as per specification. P.109, I. No.14.62								
	pathway	1	54.00	2.10		113.40			
		1	54.50	2.10		114.45			
		1	22.80	2.10		47.88			
		1	23.00	2.10		48.30			
	platform	10	2.10	1.20		25.20			
	platform	1	4.00	3.50		14.00			
					Total	**363.23**	1137.24	sqmt	413080.00
	Basic Rate	1053.00							
	Area weightage @ 8%	84.24							
	Total	1137.24							
9	Supplying and fixing M.S.Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH2 NOS 16mm dia M.s. hold fast rods each of length 25 cms. Including cost of materials cutting, bending scaffolding whrever necessary nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in-charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) P.No.255 I.No. 37.2								
	rising of chain link	90			1.50	135.00			
	At gate	2			3.50	7.00			
						142.00	991.44	mtrs	140785.00
	Basic Rate	918.00							
	Area weightage @ 8%	73.44							
	Total	991.44							
10	Providing and fixing M.S. block pipe of 38 mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. blok pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer in charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (Item No.37.4 Page No.255)								
	rising of chain link	1	60.00			60.00			
		1	26.00			26.00			
		1	24.00			24.00			
	new chain link	1	59.00			59.00			
	missing & damaged	50	2.00			100.00			
						269.00	338.04	mtrs	90933.00

	Basic Rate	313.00							
	Area weightage @ 8%	25.04							
	Total	338.04							
11	Providing chain link fencing 50mm sie of 8 guage propely stretched between rectangular poles and fixed with suitable bolts and nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, colour, lead and lifta and as per the directions of the Egineer -in-charge two coats of approved quality paint over one coat of shop paint (Page No.255, I. No. 37.3)								
	rising of chain link	1	60.00		0.90	54.00			
		1	59.00		0.90	53.10			
		1	28.00		0.90	25.20			
		1	24.00		0.90	21.60			
	missing & damaged	10	2.00		1.50	30.00			
		5	2.00		1.50	15.00			
						198.90	697.68	sqm	138769.00
	Basic Rate	646.00							
	Area weightage @ 8%	51.68							
	Total	697.68							
12	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure inclucing cost of materials, labour charges, scaffolding curing complete as per specification P. No.25, I. No. 5.27								
	patform	10	4.50		0.40	18.00			
						18.00	999.58	sqm	17992.44
	Basic Rate	943.00							
	A.W@ 6%	56.58							
	Total	999.58							
13	Providing 18mm thick cement plaster in single coat with cement mortar 1:3 to brick masonry including rounding off corners wherever required smooth rendering providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications P 113 I. No. 15.15								
	platform	10	4.50		0.40	18.00			
						18.00	249.48	sqm	4491.00
	Basic Rate	231.00							
	Area weightage @ 8%	18.48							
	Total	249.48							
14	Providing 20mm thick cement plaste rin single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering : providing and removing scaffolding, including cost of materials, labour, curing complete as per specification, cement mortar 1:4 P. No. 113 I. No. 15.19								

	alround chainlink fencing	1	60.00		0.90	54.00			
		1	59.00		0.90	53.10			
		1	28.00		0.90	25.20			
		1	24.00		0.90	21.60			
						153.90	239.76	sqm	36900.00
	Basic Rate	222.00							
	Area weightage @ 8%	17.76							
	Total	239.76							
15	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specificatios (P-120, I-15.74 PWDSR 16-17)								
	chain link fencing	1	60.00		1.50	90.00			
		1	28.00		1.50	42.00			
		1	24.00		1.50	36.00			
		1	59.00		1.50	88.50			
						256.50	85.32	sqm	21885.00
	Basic Rate	79.00							
	Area weightage @ 8%	6.32							
	Total	85.32							
16	Providing and applying ready mix priming coat over concrete/masonry /asbestos cement sheet plastered surfaces including preparing the surface after through brooming of oil,grease,dirt and other foreign matter,and sand papering including cost of materials, labhour, complete as per specifications (P.No.121, I.No.15.80)								
	Kerb stone	2	54.00		0.30	32.40			
		2	54.50		0.30	32.70			
		2	22.80		0.30	13.68			
		2	23.00		0.30	13.80			
					Total	**92.58**	27.00	Sqm	2500.00
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	27.00							
17	Providing and applying painting with ready mix paint in two coats(excluding priming coat) over new concrete/asbestos cement sheet/plastered surface brush to give an even shade after preparing the surface after through brooming of oil, dirt, and other foreign matter and sand papering including cost of materials, labhour, complete as per specifications.(P.No.121 ,I.No.15.83)								
	Qty above					92.58			
					Total	**92.58**	51.84	Sqm	4800.00
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	51.84							

18	**Gate** : Fabricating, providing and erecting in position Hop dip galvanized gate using 72x72x4.8mm sq.GI pipe frame with top pipe bending in heavy duty gydraulic press with sand packign and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq rod for verticals at 150mm c.c as shown in the drawin including providing hot dip galvanised forged ornamental design in between sq.rods and heads at top middle and bottom. Inermediate supports of 75x12 mm and 50x6mm arch bent to hot dip galvanized flats, the work is includisve of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy duty locking arrangements at two placed including cost of lavour paiting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all othe rincidental charges for successful completion of the work as per directions of the Engineer in charge of the work								
	data rate approved 12475								
	main gate	2	2.20		2.20	9.68			
	small gates	2	1.20		2.20	5.28			
					Total	**14.96**	12475.00	Sqm	186626.00
19	Providing and fixign ornamental Delhi benches as per design, specifrication and fixing as per the direction of Engineer incharge of work								
	Data Rate approved	8500							
	at ground	14.00				14.00			
						14.00	8500.00	Nos	119000.00
20	Providing and fixign granite benches as per design, specifrication and fixing as per the direction of Engineer incharge of work								
	Data Rate approved	10550							
		15.00				15.00			
						15.00	10550.00	Nos	158250.00
21	Providing children play Play Merry-Go-Round equipment : Made of MS 'A'; Class pipes. Main pillars in 100 mm dia fitted with shaft and two bearing and othr cross members are in 25 & 20n mm M.S. A Cass pipe, the bottom ring is made out of 25mm of ring size is 1.20 mtrs Dia, fitted with four seats are in mental sats of 250x200x18 SGE handles are made out of 20mm NB pipes and other supports are in 25mm MS 'A' Class pipes. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow including fixing the play equipments in CC 1;2;4 curing etc., complete with all lead, lift, loading, unloading, and any other incidental charges and as per the drawing and specification and direction of the Engineer in charge of the work								
		1				1.00			
					Total	1.00	28000.00	No.	28000.00
22	Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as specification P. No. 6 I. No. 2.13								

		1	12.50	12.10	0.30	45.38			
					Total	45.38	2256.74	Cum	102400.00
	Basic Rate	2129.00							
	Area Weightage @ 6%	127.74							
	Total	2256.74							
23	Removing and refixing of existing of play equipments								
	data rate approved 45000	1	1.00			1.00			
					Total	**1.00**	45000.00	each	45000.00
24	Manufacturing, Providing and Fixing a Gazeboo (of size 22 feet Dia-Approximate) made of MS Round pipes of 6 inches diameter of 12 SWG for pillars 10 feet in height, in which 8 ft will be above the ground level and 2 feet embedded in cement concrete and provided with MS plate on top of the pillars. MS I section 100x50mm of heavy guage (for rafters) in placed between the poles on top of the flush plate. Also MS anglular tubes of 100x40mm are to be mounted vertically on all 8 pillars. MS angular tubes of 40x20mm reepers are welded horizontally in between the rectangel tubes for a distance of 1 feet approximately so as to get the desired octoganal shape, for fixing approved guality corrugated Mangalore tiles on the roof (2 layer as per design) Flat design tiles and pointed with cement mortor. The Gazebo is to be fixed on a suitable platform, thecentral height being 15 to 16 feet and including allround bed concrete 1:4:8 and size stone masonry foundation as per the aprroved design, drawing, specifciation. The MS pipes are to be fixed with CC 1:1.5:3 and the flooring is constructed with classic Eeurocon tiles placed on cement concrete 1:4:8 and tampered with fine red earth, with cement slurry. The work includes earth work excavation, concreteing, masonary work and cost of all materials, flabour, equipments, machinery wioth all lead and lift, loading and unloading etc., complete including two coats of approved quality special spry paint over one coat of primer and executing the work as per the directions of the Engineer in charge								
						1	387925.00	Nos	387925.00
25	Providing and fixing dust bins as per designs, drawing specification and direction of Engineer in charge of works					2.00	4800.00	Nos	9600.00
									2,751,509.20
								KRIDL Charges 9%	**247,635.83**
								Miscellaneous Rs.	**854.97**
								GRAND TOTAL Rs.	**3000000.00**

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per C.S.R. of 2015-16
3. This provisions were made in this estimate are necessary and adequate
4. This work comes under B.B.M.P limits

Asst. Engineer
BBMP

Asst. Executive Engineer Project
Yelahanka Zone, BBMP

Administrative Approval
Accorded For 30.00 lakh Rs.
Head of A/C P-2415
CER NO : 64 Dt: 28/12/16

TA CE (YNK)

Executive Engineer project
Yelahanka Zone
BBMP
1/12/16

Technical Sanction
Accorded For 30.00 lakh Rs
Head of A/C P-2415
CER NO : 78 Dt: 28/12/16

TA CE (YNK)